AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A device ~~Device~~ for use in the detection of ~~the~~ power that passes through an electronic device, comprising:

means for division of ~~the~~ power that enters the device into a first and a second branch, each branch having a predetermined proportion of ~~the~~ total input power with a predetermined phase difference between respective ~~the~~ signals that go into the branches,

~~further comprising~~ a first power detector for the first branch,

a second power detector for the second branch, ~~and~~

means for summation of the power in the two branches, ~~characterized in that~~

wherein the first and the second power detectors are calibrated for different sub-ranges of a dynamic range within which it is desired to carry out the power detection, and

wherein ~~in that~~ the means for summation can be controlled with regard to which branch and thereby to which power detector a ~~the~~ sum of the power is diverted, and ~~in that the device comprises,~~

in at least one of its branches, means for said control of the means for summation ~~summator~~.

2. (Currently Amended) A device ~~Device~~ according to claim 1, in which device the sub-ranges for which the first and the second power detectors are calibrated are overlapping.

3. (Currently Amended) A device ~~Device~~ according to Claim 1, in which the means for division of the power and the means for summation both comprise a summator.

4. (Currently Amended) A device according to ~~Device~~ Claim 1, in which at least one of the means for division of the power and the means for summation are designed in MMIC-technology.

5. (Currently Amended) A device ~~Device~~ according to Claim 1, in which the means for controlling the summator comprises a controllable phase shifter.

6. (Currently Amended) A device ~~Device~~ according to Claim 1, further comprising means for amplification in each branch of the device.

7. (Currently Amended) A device ~~Device~~ according to Claim 1, comprising means for controlling the means for summation in both the first branch and the second branch.

8. (Currently Amended) A device ~~Device~~ according to Claim 1, in which the electronic device for which the invention is used is a device for the transmission of electromagnetic energy.

9. (Currently Amended) A device ~~Device~~ according to Claim 1, in which the electronic device for which the invention is used is a device for the reception of electromagnetic energy.

10. (Currently Amended) A method of detecting ~~Method for use for the detection of the~~ power that passes through an electronic device, the method comprising:

~~division of the~~ dividing power that enters the device into a first and a second branch, each branch being given a predetermined proportion of the total input power with a predetermined phase difference between the signals that go into the branches,

~~further comprising~~ performing user-defined detection of the power in the first branch and summation of the power in the two branches,

performing user-defined detection of the power in the second branch,

~~characterized in that~~ wherein the user-defined detection in the first branch and the user-defined detection in the second branch are calibrated for different sub-ranges of a dynamic range within which it is desired to carry out the detection according to the method, and

controlling ~~in that~~ the summation ~~is controlled~~ with regard to which branch and thereby to which detection the sum of the power is diverted, ~~and in that~~ said controlling ~~(120)~~ of the summator being ~~is~~ carried out via at least one of the branches.

11. (Currently Amended) The method of claim 10, according to which the sum of the power is diverted to the user-defined detection within ~~whithin~~ whose sub-range the power can be detected.

12. (Currently Amended) The method ~~Method~~ according to claim 10, in which the different sub-ranges of the user-defined detection in the first and in the second branch are overlapping.

13. (Currently Amended) -The method ~~Method~~ according to claim 10, according to which the division of the power and the summation of the power are carried out by means of a summator.

14. (Currently Amended) The method ~~Method~~ according to claim 10, in which the control of the summator comprises phase shifting of the signal in one of the branches.

15. (Currently Amended) The method ~~Method~~ according to Claim 10, further comprising amplification ~~(160, 170)~~ of the signals in each branch of the device.

16. (Currently Amended) The method ~~Method~~ according to Claim 10, further comprising control of the summator via both the first branch and the second branch.

17. (Currently Amended) The method ~~Method~~ according to Claim 10, in which the electronic device for which the method is used is a device for the transmission of electromagnetic energy.

18. (Currently Amended) The method ~~Method~~ according to Claim 10, in which the electronic device for which the method is used is a device for the reception of electromagnetic energy.

19. (New) A device for use in the detection of power that passes through an electronic device, comprising:

a power divider which divides power that enters the device into a first and a second branch, each branch having a predetermined proportion of total input power with a predetermined phase difference between respective signals that go into the branches;

a first power detector for the first branch;

a second power detector for the second branch;

a summator which sums of the power in the two branches;

wherein the first and the second power detectors are calibrated for different sub-ranges of a dynamic range within which it is desired to carry out the power detection, and

a controller in at least one of the branches which controls the summator with regard to which branch and thereby to which power detector a sum of the power is diverted.

20. (NEW) A device according to claim 19, in which device the sub-ranges for which the first and the second power detectors are calibrated are overlapping.

21. (NEW) A device according to Claim 19, wherein the controller comprises a controllable phase shifter.

22. (NEW) A device according to Claim 19, further comprising an amplifier in each branch of the device.

23. (NEW) A device according to Claim 19, wherein the controller is in both the first branch and the second branch.

24. (NEW) A device according to Claim 19, in which the electronic device is a device for the transmission of electromagnetic energy.

25. (NEW) A device according to Claim 19, in which the electronic device is a device for the reception of electromagnetic energy.